

Interactive online advice app

Presentation of the Beta version to the Long Distance Fleet Advisory Council (LDAC)
24th of May 2023
Stockholm, Sweden

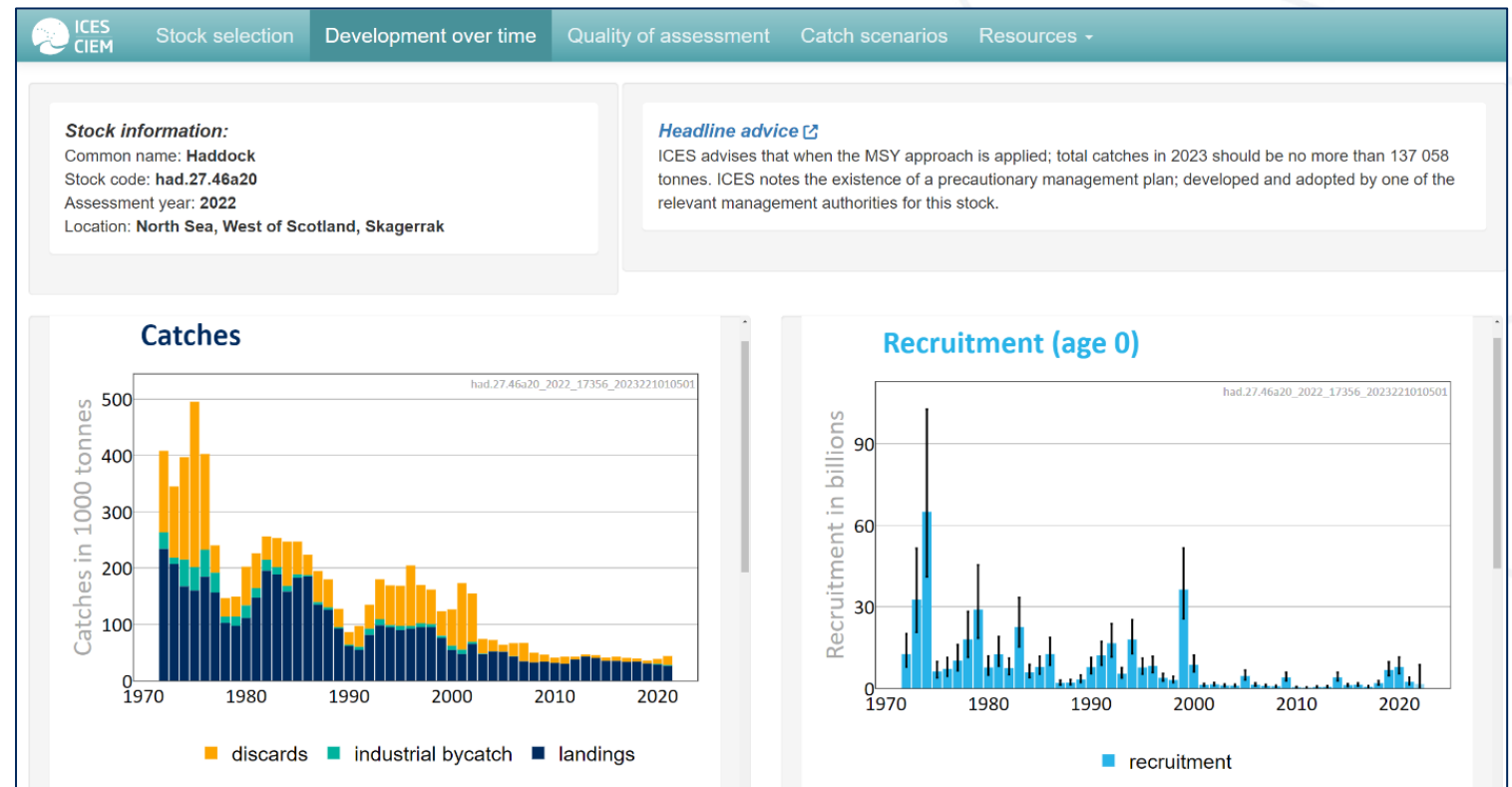
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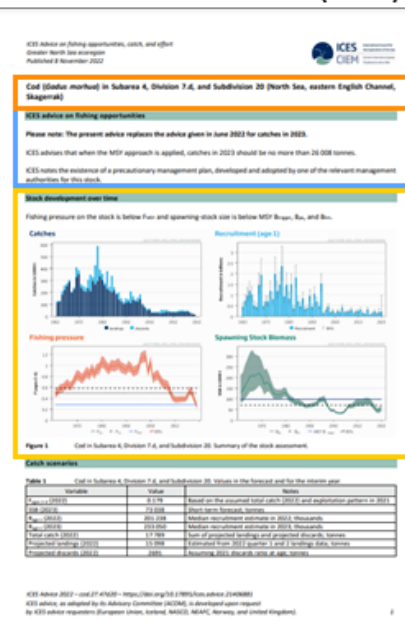
Science for sustainable seas

The advantages of an interactive tool

- Easier access to stock's advice
- Interactive data visualisation
- Direct access to the data behind the advice figures
- Easier integration and connection of multiple ICES products
- Customizable user experience
- Always up-to-date



ICES ADVICE SHEET(PDF)



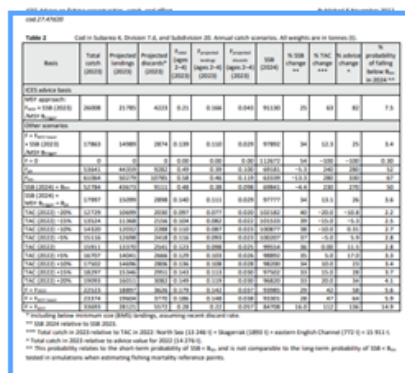
STOCK INFORMATION DATABASE (SID)



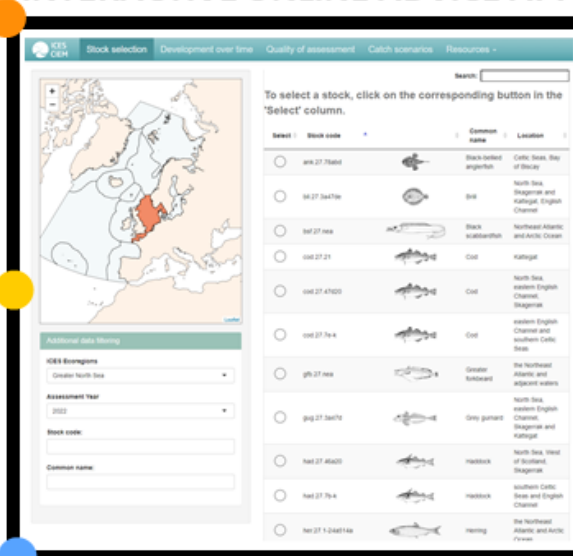
STOCK ASSESSMENT GRAPHS (SAG)



ADVICE & SCENARIOS DATABASE (ASD)



INTERACTIVE ONLINE ADVICE APP



The development process

Beta version release

- 27th of January 2023
- Beta version includes around 100 stocks across all ecoregions and categories (1-6)

The screenshot shows the ICES online single-stock advice interface. On the left, there is a map of the North Atlantic with a red box indicating the selected area. Below the map, there are filters for 'ICES Ecoregions' (Greater North Sea) and 'Assessment Year' (2022). The main part of the interface is a table with columns: Select, Stock code, Common name, and Location. The table lists various fish stocks, including Black-bellied anglerfish, Brill, Black scabbardfish, Cod, Greater forkbeard, Grey gurnard, Haddock, Herring, Horse mackerel, Lemon sole, Mackerel, and Sardine. Each row has a radio button in the 'Select' column and a fish icon in the 'Common name' column.

Select	Stock code	Common name	Location
<input type="radio"/>	ark27.78abd	Black-bellied anglerfish	Celtic Seas, Bay of Biscay
<input type="radio"/>	brl27.3a47de	Brill	North Sea, Skagerrak and Kattegat, English Channel
<input type="radio"/>	bsf27.nea	Black scabbardfish	Northeast Atlantic and Arctic Ocean
<input type="radio"/>	cod27.21	Cod	Kattegat
<input type="radio"/>	cod27.47d20	Cod	North Sea, eastern English Channel, Skagerrak
<input type="radio"/>	cod27.7e-k	Cod	eastern English Channel and southern Celtic Seas
<input type="radio"/>	gfb27.nea	Greater forkbeard	the Northwest Atlantic and adjacent waters
<input type="radio"/>	gug27.3a47d	Grey gurnard	North Sea, eastern English Channel, Skagerrak and Kattegat
<input type="radio"/>	had27.48a209	Haddock	North Sea, West of Scotland, Skagerrak
<input type="radio"/>	had27.7b-k	Haddock	southern Celtic Seas and English Channel
<input type="radio"/>	hcr27.1-24a514a	Herring	the Northeast Atlantic and Arctic Ocean
<input type="radio"/>	hcr27.30-24	Herring	Skagerrak, Kattegat, and western Baltic
<input type="radio"/>	hcr27.3a47d	Herring	North Sea, Skagerrak and Kattegat, eastern English Channel
<input type="radio"/>	hcr27.2a4a5b6a7a-c0-k0	Horse mackerel	the Northeast Atlantic
<input type="radio"/>	lem27.3a47d	Lemon sole	North Sea, Skagerrak and Kattegat, eastern English Channel
<input type="radio"/>	mac27.nea	Mackerel	the Northeast Atlantic and adjacent waters
<input type="radio"/>	pi27.7	Sardine	Southern Celtic Seas, English Channel

<https://ices-taf.shinyapps.io/online-single-stock-advice/>

The screenshot shows the ICES CIEM website. The header includes the ICES CIEM logo, navigation links (News, Events, Calendar, Library, SharePoint login, Admin), a search bar, and a secondary navigation bar (ABOUT ICES, SCIENCE, DATA, ADVICE, JOIN US). Below the header, there is a red banner with the word 'NEWS' in white capital letters.

Testing testing: ICES fisheries advice goes interactive

Single-stock advice goes interactive as ICES launches a new app to visualize fisheries advice.

Published: 27 January 2023

ICES has launched a [beta version](#) (test version) of a new app that visualizes ICES fisheries advice. For the first time, users have the opportunity to access and interact directly with the data behind ICES advice figures.

This is an important step towards ICES advice sheets becoming fully interactive, potentially opening the advice up for wider use and understanding. The app also gives the option of downloading the classic pdf file, thus ensuring that the current use of our advice still is possible.

Advice release

When ICES releases its scientific advice, it is published in ICES library with links to the advice documents emailed to the advice requesters. However, as much of the underlying data used to develop the advice, the advice itself, and the catch scenarios provided can only be found in these advice sheets, these data are not readily downloadable.

Over the past 2 years, a team at ICES Secretariat has been working to translate the advice data from the static advice sheet to an interactive online tool.

The motivation to develop the app started with a Special Request in 2018: *Could ICES develop a more interactive advice product with a simple, easy-to-use interface?* In parallel, there were also informal requests asking ICES to develop a database that would store catch scenario information, as well as basic information such as the headline advice. These requests, coupled with a desire across the network to have the advice sheet information more readily accessible, initiated the work on the online advice app.

One of the main challenges has been to develop a [shiny app](#) robust enough to handle the volume and diversity of advice and data outputs found across ICES stocks while providing a seamless user experience.

<https://www.ices.dk/news-and-events/news-archive/news/Pages/OnlineAdvice.aspx>

Print it Send to f t in Share it

The graphic shows a blue line graph with fish icons, representing the interactive advice app. Below the graph, there are two buttons: 'TEST THE INTERACTIVE ADVICE APP' and 'LEARN ABOUT ICES ADVISORY PROCESS'.

Feedback

- Feedback form

 Stock selection Development over time Quality of assessment Catch scenarios Resources ▾

Contact & Feedback
You can contact us via [email](#).
You can submit an issue to our [GitHub repository](#).
Please give us your feedback:

Contact & feedback
Data sources
Data disclaimer & policy
Citation

- Generally positive re a new interactive tool to access quickly the advice
- Need to be more mobile friendly
- Some stock-specific errors reported
- More feedback needed, especially for the “catch scenarios” tab



Single-stock online advice (Beta release)

Remember to click **Submit** at the end of the form!
Thank you for your feedback!


1


General comments:

Enter your answer

3

How easy was it to select a stock in the Stock Selection page?

 Stock Selection Development over time Quality of assessment Catch scenarios Resources ▾



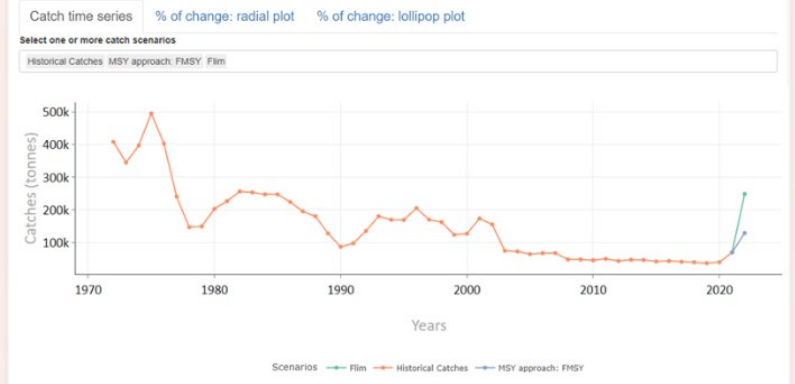
To select a stock, click on the corresponding button in the 'Select' column.

Select	Stock code	Common name	Location
<input checked="" type="radio"/>	ark.27.26atl	Stocked fish	Calvo Sea, Bay of Biscay
<input type="radio"/>	ark.27.12atl	Greater silver smelt	Northwest Arctic, North Sea, Biscay and Kattegat
<input type="radio"/>	ark.27.2atl	Bill	North Sea, Biscay and Kattegat, English Channel
<input type="radio"/>	ark.27.21	Cod	Kattegat

- ☐ Very easy
☐ Easy
☐ Not so easy

7

Please rate how effective the catch time-series is at describing catch scenarios.



Full release (June 2023)



Stock selection Development over time Quality of assessment Catch scenarios Resources -

Stock information:

Common name: **Whiting**

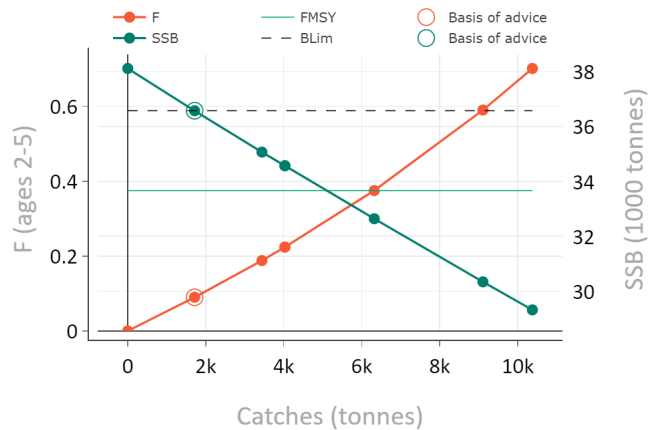
Stock code: **whg.27.7b-ce-k**

Assessment year: **2022**

Location: **southern Celtic Seas and eastern English Channel**

Headline advice [↗](#)

ICES advises that when the MSY approach is applied; catches in 2023 should be no more than 1715 tonnes. ICES notes the existence of a precautionary management plan; developed and adopted by one of the relevant management authorities for this stock. Management should be implemented at the stock level.



Search:

Subset of catch scenario table (click [↗](#) to access the full version)

Basis		Ftotal (2023)	Fprojected landings (2023)	Total catch (2023)	% advice change** (2024)	SSB (2024)
SSB2024 = Blim	Basis Of Advice	0.09	0.079	1715	-61	36571
MSY and precautionary considerations: F = 0	Other Scenarios	0	0	0	-100	38109
MSY approach: FMSY × SSB2023/MSYBtrigger	Other Scenarios	0.224	0.199	4030	-9.5	34568
EU MAP ^{^^} : FMSY ×SSB2023/MSYBtrigger	Other Scenarios	0.224	0.199	4030	-9.5	34568
EU MAP ^{^^} : FMSYlower×SSB2023/	Other Scenarios	0.188	0.167	3441	-23	35065

- Implement received feedback
- Include all stocks (Advice and Scenarios Database, ASD – [link](#))
- Include 2023 advice